

## AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended). In a wireless communication system in which a mobile station ~~is engaged~~ engages in a call ~~over an~~ via air interface communication with a base station, a method comprising:

the base station making a determination that the call ~~in which the mobile station was engaged~~ has been dropped; and

responsively determining a call-drop location of the mobile station,

wherein the wireless communication system comprises position determining equipment (PDE); and

wherein determining the call-drop location comprises the base station sending a position request to the PDE to determine the location of the mobile station, the position request including a mobile identification number (MIN) identifying the mobile station.

Claim 2 (Canceled).

Claim 3 (Currently Amended). The method of claim ~~2~~ 1, further comprising storing the call-drop location in the network entity, ~~the network entity selected from the group consisting of a server and a base station.~~

Claims 4-8 (Canceled).

Claim 9 (Original). The method of claim 1, wherein making the determination that the call in which the mobile station was engaged has been dropped comprises determining, at the

base station, that a duration of bad frames received from the mobile station is greater than a threshold level.

Claim 10 (Original). The method of claim 1, wherein making the determination that the call in which the mobile station was engaged has been dropped comprises the base station determining that the call cannot be handed off to another cell-site.

Claims 11-20 (Canceled).

Claim 21 (Currently Amended). A system comprising:

a mobile station;

a ~~network entity~~ base station communicatively coupled to the mobile station;

wherein the mobile station is arranged to engage in a call over an air interface; and

wherein the ~~network entity~~ base station is arranged to:

(i) make a determination that the call in which the mobile station was engaged has been dropped;

(ii) responsively cause position determining equipment (PDE) to determine a call-drop location of the mobile station.

Claim 22 (Canceled).

Claim 23 (Original). The system of claim 21, wherein the network entity being arranged to make the determination that the call in which the mobile station was engaged has been

dropped comprises the network entity being arranged to make the determination that a duration of bad frames received from the mobile station is greater than a threshold level.

Claim 24 (Original). The system of claim 21, wherein the threshold level is twenty bad frames.

Claim 25 (Original). The system of claim 21,  
wherein the network entity comprises memory; and  
wherein the network entity is further arranged to store the call-drop location in the memory to thereby log locations of call drop events.

Claim 26 (Original). The system of claim 21, wherein the network entity being arranged to make the determination that the call in which the mobile station was engaged has been dropped comprises the network entity being arranged to make the determination that the call cannot be handed off to another a cell-site.

Claim 27 (Canceled).

Claim 28 (Original). A base station comprising:  
a first routine to make a determination that a call in which a mobile station was engaged has been dropped; and  
a second routine to responsively cause position determining equipment (PDE) to determine a call-drop location of the mobile station.

Claim 29 (New). A system comprising:

a mobile station;

a base station communicatively coupled to the mobile station;

wherein the mobile station is arranged to engage in a call over an air interface; and

wherein the base station is arranged to:

(i) make a determination that the call in which the mobile station was engaged has been dropped;

(ii) responsively cause position determining equipment (PDE) to determine a call-drop location of the mobile station by:

sending a location request to a mobile switching center (MSC), the location request including an ID identifying the mobile station;

the MSC sending a position request to a mobile positioning center (MPC);

the MPC forwarding the position request to the PDE; and

the PDE responsively determining the location of the mobile station.